Research and Development for Onboard Navigation (ONAV) Ground Based Expert/Trainer System Test Report

Preface

This research was conducted under the auspices of the Research Institute for Computing and Information Systems by LinCom Corporation under the direction of Daniel C. Bocshsler. Terry Feagin, Professor of Computer Science at the University of Houston - Clear Lake, served as the technical representative for RICIS.

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The views and conclusions contained in this report are those of the author and should not be interpreted as representative of the official policies, either express or implied, of NASA or the United States Government.

Research and Development for Onboard Navigation (ONAV) Ground Expert/Trainer System

TEST REPORT

(Deliverable E)

Prepared For:

Dr. Terry Feagin
Research Institute for Computing and Information Systems
University of Houston - Clear Lake

Prepared By:

Daniel C. Bochsler LinCom Corporation 18100 Upper Bay Road, Suite 208 Houston, Texas 77058

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TEST REPORT FOR THE ONBOARD NAVIGATION (ONAV) CONSOLE EXPERT/TRAINER SYSTEM

ENTRY PHASE

August 1988

LinCom Corporation Houston Texas

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This document was prepared with the appreciated participation of several people:

Steve Desrosiers / RSOC Angie Ferrell / RSOC Malise Haynes / NASA-DM4 Carol McConnell / Unisys Lynn Morris / Unisys Lui Wang / NASA-FM7 Charles Copeland / LinCom

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SUMMARY

This document presents the test report for the Onboard Navigation (ONAV) Console Expert/Trainer Entry Expert System. It includes a background summary of testing procedures used and summaries of test results. General conclusions are also presented.

INTRODUCTION

2.1 PURPOSE

This document describes the test results for the ONAV Entry phase system. A summary of the test methods and analysis results are included.

2.2 APPLICABLE DOCUMENTS

The following document represented the test plan which guided the activities described in this test report:

Test Plan for the Onboard Navigation (ONAV) Console Expert/ Trainer System, Entry Phase, LinCom Corporation, for RICIS Proj. No. AI-8, Coop. Agrmt. No. NCC9-16, Subcontract No. 005, April 15, 1988.

The test plan and this test report are obviously interrelated. Many sections of the test report correlate exactly to section in the test plan, where objectives and recommended procedures are given. The test plan should be examined concurrently with the test report to provide a comprehensive discussion of the ONAV Entry expert system testing.

Additionally, this test report makes reference to aspects of the testing activity that are described in the following user's guide for the ONAV Entry system:

User's Guide for the Onboard Navigation (ONAV) Console Expert/Trainer System, Entry Phase, Final Version, LinCom Corporation, April, 1988.

TEST RESULTS

3.1 BACKGROUND

A good design is a necessity for a good test program. It has been said over the years with software engineering that design is more than an "ounce" of prevention for testing. At the same time, design implies order and testing may uncover design changes or errors. Therefore, having a good design available when doing test is very important to an orderly, efficient and effective verification process and the ultimate robustness and success of the system.

Specific testing experiences and results will be described in the following sections. The discussions will be organized under the heading of analysis/results.

3.2 RULE TESTS

3.2.1 Inspection

Analysis/Results:

The XREF program was run for all the rule groups into which the Entry knowledge base had been broken into. Several typographical errors were found. These were subsequently corrected. It is important to note that, while we did not have a complete list of all known valid patterns, the context of the Entry phase expert system provided a basic guide as to what a correct and/or incorrect pattern was.

A byproduct of this process was an increased awareness of the importance of looking at every part of a rule with the same rigorousness as the patterns themselves. Sensitivity to spelling of rule names for example, while not as significant functionally as rule patterns, was gained. Out of this came the realization that greater consistency was needed for the rule names within the various rule groups of the ONAV knowledge base. Such consistency aided cross referencing and more detailed correlations of rule information. Some renaming of rules was performed to accomplish this.

3.2.2 Compilation

Analysis/Results:

The "(rules)" list generated by the CLIPS environment compared well with the XREF listing. No discrepancies were found. As was mentioned in section 3.2.1, the rule name inconsistencies were very evident when performing this test.

In a sense, this test "exercised" both CLIPS and the XREF program. In doing the compilation to check that all rules compile, this certainly is useful from the standpoint of having readable CLIPS rules. On the other hand, having to check explicitly for duplicate rule names might not be necessary if this particular function was handled explicitly or implicitly by CLIPS or XREF. As it was during testing, we did not have complete information as to the extent of these capabilities in CLIPS and XREF. Therefore, this test to check rule names was necessary, and ensured that no problems of this type were present.

3.2.3 Default Data Activations

Analysis/Results:

During the initial preparation for this test, it was found that the ONAV rule file "control.r" had to be modified for this test. The modification was very simple. The rule that begins the rule control flow performs, among other things, the assertion of facts from the comps file into the rule base. For this test, this was not desired and was the opposite of what this test was trying to accomplish. Because of this situation, the "control.r" file used in this test had the call to "fact assertion" deleted (commented out actually). In addition, the "single step" feature of ONAV (see user's guide reference in the applicable documents section 2.2) was used to make the ONAV system execute one and only one complete cycle through the control flow. This usage can be seen in the listing of the test results.

The test was run using the batch file shown in Appendix A. The results of running the batch file are provided in Appendix B. An examination of these results shows that the only rules that executed with the default data were control flow rules, with one exception noted in the IMU rules. The control flow rule action was to be expected and considered normal. The unexpected rule execution occurred in the IMU rule group. Here, IMU status light rules executed to control the expert system display. While initially unexpected, analysis showed this to be acceptable and appropriate given the values of the default data and the function of the rules that executed.

3.2.4 Individual Rule Sets Loaded

Analysis/Results:

As testing activities progressed, this particular test as defined was determined to be of marginal or no value. Subsequently, a decision was made not to perform this test. The reasoning here was that: 1) the original intent of this test and even more testing would be accomplished by a later series of tests; therefore, little or no benefit would be gained by doing this test, and 2) an excessive amount of preparation time is required to perform this test, in that each and every rule in the expert system would have to have a special data set developed to trigger the patterns in that rule. Taking this into consideration, and given that later testing would cover this, it was decided to eliminate this test.

3.2.5 All Rule Sets Loaded

Analysis/Results:

This test was not performed, for the same reasons as described in section 3.2.4. The same rationale applied since the tests described in sections 3.2.4 and 3.2.5 are variations of each other.

3.3 GROUP TESTS

3.3.1 Functional Inspection

Analysis/Results:

This part of the testing involved detailed examination of rules and specification paperwork, as compared to most of the previous computer based testing performed. The rule base of the expert system was examined systematically, one group at a time. For each of these groups, the left and right hand side patterns and actions of each rule were compared to the Entry phase knowledge requirements specification:

"Knowledge Requirements for the Onboard Navigation (ONAV) Console Expert/Trainer System," Entry Phase Specifications, Version 1.1, LinCom Corporation, April 1988.

Numerous discrepancies in patterns were found, particularly in the form and syntax of patterns used in more than one group of rules. For example, a pattern used in the IMU rules was referenced in some of the TACAN rules, yet the pattern was not consistent in format in the two groups. In other situations, discrepancies between the code and the specification were ambiguous and required consultation with the personnel who provided the original inputs and expertise for the knowledge specifications. In several instances, the original thinking of the expert was not consistent with the expert's current thinking and therefore resulted in a modification to the specification as well as the rule code.

This test could be considered the first point where the code is examined in a comprehensive, integrated manner. In general, more than one person is tasked with developing rule groups which creates situations for typical syntax inconsistencies to occur with respect an integrated rule base. Thus, this step in the testing process was considered to be particularly effective.

3.3.2 Functional Execution - Ordered Groups

Analysis/Results:

A decision not to perform this test was made for reasons similar to that discussed in section 3.2.4. The appropriateness of doing this test was outweighed by: 1) the partial satisfaction of test objectives by the test described in section 3.2.3. The sequencing mechanisms are, in part, implemented with control patterns within rule groups. Therefore, part of the original intent of this test had already been covered. In addition, it was found that effective results of salience type sequencing checks could only be obtained using realistic data, not canned "deffacts" default data. Further, such deffacts data would have required some "intrusive changes" to the rule sets to make the test situation function correctly (e.g., temporary modifications to rules to inhibit infinite loops situations).

3.3.3 Functional Execution - Unordered Groups

Analysis/Results:

This test was not performed for many of the same reasons as given above.

3.4 INTERFACE TESTS

3.4.1 Input File Sources

Analysis/Results:

This test was partially successful in meeting the test objectives. The repairs file used to assign a unique number to each of the data items sent to the expert system is provided in Appendix C. Examination of the results of running this test quickly showed an unanticipated problem with the specification of the test. The assignment of a unique number to each input into the expert system was done <u>before</u> the data preparation processing, not <u>after</u> as was implied in the test specification.

The numeric form of the unique numbers was not consistent with the flag conversion, scaling, averaging, etc. performed in the data preparation process. Out of the data preparation process comes both symbolic values (e.g., high or low, which are no longer numbers and are difficult to correlated directly with the assigned unique number itself), and numeric values. Therefore, the results of this test enabled the end-to-end data flow of some, not all, of the input data parameters to be examined. The results obtained were used as much as possible to trace the proper flow. The valid data passing through the data preparation process showed correct results. The checkoff of data sources, in support of the test described in section 3.4.2, was completed and successful.

3.4.2 Default Data Sources

Analysis/Results:

The facts given in the listing from this test were used, along with the checkoff list from the test described in section 3.4.1, to further ensure that all data patterns in the rule base had some clearly defined source. Again, this test provided an opportunity to really understand what was in the rule base from the standpoint of code implementation.

3.4.3 Non-HSTD Inputs

Analysis/Results:

This test was performed, but the procedure was done by code inspection rather than logging data in a dribble file as the original procedure specified. This was felt to be a more time efficient and effective method. The code which asserted each of the inputs was examined and the exact form of the fact that would be asserted was written down. This form was then compared to the pattern of the corresponding rule in the rule base. No discrepancies were found.

3.4.4 HSTD Inputs

Analysis/Results:

A procedure similar to that described in section 3.4.3 was performed.

3.4.5 Identify Function Calls

Analysis/Results:

This type of test is done inherently each time a rule set or sets is loaded into a CLIPS environment. Part of CLIPS' initial processing of rules is to make sure that all references to functions in the rules can be traced to the "defined functions" that CLIPS has access to. As a consequence of loading the rule

sets in previous tests, no unknown function references were indicated by CLIPS. Therefore, all function references were present as expected and this test, as originally defined, did not have to be performed.

3.4.6 Function Call Returns

Analysis/Results:

This test was performed by inspection of the calling arguments in the rule function calls and the outputs of the defined C language functions defined for the expert system. This process was also verified as part of previous tests in that incorrect types of returned data from function calls will often result in a CLIPS syntax or data type or data usage error during execution.

3.4.7 Status Light Indicators

Analysis/Results:

This test was performed by taking the "output.r" rule set and adding a test fact for each status light on the screen to the deffacts section of the ruleset which was defining the light locations. This test was done for all status lights in each of three light modes: normal, inverse, and blink. Appendix D presents a listing of one of the three versions of the output rule set showing how the status light deffacts data was specified.

Performing this test in this manner was a simplication over the original test definition because the status light indicators on the expert system screen all lit up essentially at the same time and stayed on the screen until the expert system was completely stopped. No anomalies were found.

3.4.8 User Interface Command Acceptance

Analysis/Results:

The procedure for this test was altered and consisted of both inspection of the rules and user interface fact assertion code, and partially by the successful display of the appropriate configuration windows as illustrated in the ONAV Entry User's Guide (see applicable documents section 2.2). All inputs were found to be functioning properly.

3.5 ACCEPTANCE TESTS

Due to the unavailability of experts required to evaluate such testing, which was outside the control of ONAV testing activities performed here, acceptance testing was not completed. Initial data files were made available with which to begin testing and previous testing activities resulted in the expert system being fully prepared for the detailed types of investigation and examination carried out during acceptance test activities.

The test plan for acceptance testing remains fully valid and the appropriate organizations have been made cognizant of this situation.

CONCLUSIONS AND RECOMMENDATIONS

4.1.1 Design Structure

The design of the Entry expert system rule base, with numerous functional groups, was of significant benefit in both organizing and carrying out the tests that were performed. Such a breakdown of rule bases ensures that individual aspects of rules can be more easily tested, without having to deal with unnecessary interactions from or with other rules in the rule base.

4.1.2 Development Techniques

With respect to the accuracy of the coding effort, a data item dictionary (i.e., pattern name, format, and legal values) for the entire design would have been useful and would help avoid inconsistencies and inaccuracies in syntax and inter-rule-group integration. This type of item, while certainly an impact on testing of the rule base, is definitely a resource and time consideration during development activities.

4.1.3 Testing Results

The results of the testing performed demonstrated that the ONAV Entry expert system performs very well. Functional processing was found to be very complete and the various functional parts of the rule base were well integrated, both from a rule base standpoint as well as with non-rule components of the expert system (e.g., user interface).

4.1.4 Languages

The use of CLIPS and C was very advantageous in the sense of using a consistent language throughout the expert system.

APPENDICES

- A Batch file from test 4.1.3.1 described in section 3.2.3 of this document.
- B Dribble file output from test 4.1.3.1 described in section 3.2.3 of this document.
- C Repair test file for test 4.3.1.1 described in section 3.4.1 of this document.
- D Interface light rule set modified to support status light checks for test 4.3.2 described in section 3.4.7 of this document.

APPENDIX

A - Batch file from test 4.1.3.1 described in section 3.2.3 of this document.

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APPENDIX

B - Dribble file output from test 4.1.3.1 described in section 3.2.3 of this document.

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APPENDIX

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APPENDIX

D - Interface light rule set modified to support status light checks for test 4.3.2 described in section 3.4.7 of this document.

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GROUP Output Management These groups determine what needs to be displayed and to be displayed.	CONTROL FACTS (phase output) CONTAINING GROUP	**************************************	the transmission of event notices notices notice is received as a fact with system ?mode ?tag \$?text) = the name of the subsystem generatinal or off-nominal	mach, or none e text of the mes	<pre>containing GRoup dutput Management ***********************************</pre>	defrule logging-off	The logging is set to on AND The operator entered the logging-off indicator	Turn message logging off	<pre>% <= (logfile on)</pre>

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IF The legging is set to oit HWD The operator entered the logging-on indicator THEN	FND 2x <- (logfile off) 2y <- (operator-input log-on)	i as I	output-print-event	it on the mein memeage vindow and the subsystem window	Phase output ?x <- (event ?subsystem ?mode ?tag \$?text) .logfile ?on_off)	Find of	then (call (format else	(bind 2n (+ 2n 1)) (call (format message "%s" 2a)) (call (format message "%n")) (call (message main 2mode event 2taq)) (eall (message faubsystes Paode event 2taq)) (if (eq 2on_off on)

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ORIGIN L 1 6 1 Car. 15 POOR QUALITY from other printout of recommendations at regul sent to this group from other rules a recommendation to remain active, the rule that asserts it must issert it on every cycle. If a recommendation is not asserted on Contained a committee of the subsystem generating to distinguish it name of the recommendation (to distinguish it names partician) active 21d = same as recommendation id 2a = message number on main message window 2b = message number on subsystem message window 2time = time the recommendation was last checked re-assert it on every cycle. If a recommendation is not a given cycle, then it is assumed to no longer be active. THE SERVICE OF LEGIONS AND MODEL OF MICHAEL recommendation rules also keep an internal record of ommendations using facts of the following form: 9 9 9 9 Pollowing form. へへへゅう (recommend ?subsystem ?id ?mode ?tag \$?text) Psubsystem ?id ?a ?b ?time Prode = nominal or off-nominal first = ait, mach, or none 2mode 2id #?text = the text of the message = W | | こ | こ | Psubsystem = the name of the message. (format message recommendations). Recommendation Management (bind ?a (nth ?n \$?text)) (if (numberp ?a) the 自に有 recommendations using facts of (format (bind ?n i) (bind ?l (length \$?text)) This group of rules handles intervals. Recommendations in the form of a fact. Substant (5411 Output Management (call (active-message (phase output) CONTAINING GROUP e 1 se CONTROL FACTS re-assert where The (defrule L U Li

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